

GEARTECH	CHECKLIST			No. CK8100	SHEET 1 OF 1
				Rev. A	
Gear Raw Material				BY RLE	DATE 8/23/99
				CKD JRM	DATE 8/23/99
Question	Y	N	R	Comments	
Are material certifications properly executed?					
Are forgings, bars, and coupons traceable to original heats?					
Does material conform to following minimum requirements:?					
Process- electric furnace, vacuum-degassed?					
Form- forgings with 3:1 minimum reduction?					
Form- wrought bars with 7:1 minimum reduction?					
Chemistry- conform to alloy specification?					
Chemistry- sulfur $\leq 0.025\%$?					
Chemistry- phosphorus $\leq 0.025\%$?					
Chemistry- aluminum $\leq 0.035\%$?					
Chemistry- hydrogen ≤ 25 ppm?					
Chemistry- oxygen ≤ 2 ppm?					
Grain size- 5 or finer?					
Hardenability- adequate to obtain required core hardness?					
Hardenability- Jominy data provided?					
Cleanliness- certified per AMS 2301 or ASTM A 534?					
Cleanliness- does certification show inclusion rating?					
Cleanliness- does inclusion rating meet AMS 2301 or ASTM A 534 requirements?					
Ultrasonic inspection- are ultrasonic certifications properly executed?					
Ultrasonic inspection- are forgings inspected per ASTM A 388?					
Ultrasonic inspection- do forgings meet ANSI/AGMA 2101-C95, grade 2 acceptance criteria?					
Has material been provided for representative test coupons conforming to QP8301?					